SWP Weekly Water Quality Summary

March 23 to 29, 2010

Electrical Conductivity: Concentrations increased at Harvey O. Banks Pumping Plant (HBP), Check 41 and Barker Slough, but decreased at Vallecitos, from March 23 to March 29, 2010. Concentrations ranged from 410 to 576 µS/cm (246 to 346 mg/L), below the Article 19 Monthly Average Objective of 733 µS/cm (440 mg/L.) As of March 29, 2010, the lowest concentration of 442 µS/cm occurred at Vallecitos, while the highest concentration of 576 µS/cm occurred at Barker Slough. EC concentration at HBP increased from 439 to 450 µS/cm, as of March 29, 2010.

Bromide*: Concentrations exceeded the California Bay-Delta Authority (CBDA) Objective of 0.05 mg/L at all locations. Concentrations ranged from 0.17 to 0.30 mg/L. As of March 29, Vallecitos had the lowest concentration of 0.19 mg/L, while the highest concentration of 0.30 mg/L occurred at Barker Slough. The average daily bromide concentration at HBP was 0.20 mg/L as of March 29, 2010.

* Bromide concentrations are calculated values using linear regression equations using EC concentrations and are not as accurate as bromide concentrations from laboratory analysis.

Turbidity: This week turbidity levels decreased at HBP and Barker Slough, but increased at Check 41 and Vallecitos. Turbidity levels ranged from 6.1 to 43.8 NTU during the week. As of March 29, 2010, the lowest level of 9.1 NTU occurred at HBP, while the highest level of 35.1 NTU occurred at Barker Slough. Turbidity levels at HBP decreased from 10.9 NTU to 9.1 NTU as of March 29, 2010.

Dissolved Organic Carbon (DOC): Concentrations decreased slightly from 7.5 to 6.5 mg/L at HBP and from 6.8 mg/L to 6.5 mg/L at Check 13, but increased from 2.2 to 4.3 mg/L at Edmonston PP, as of March 29, 2010.

Taste and Odor Compounds: As of March 21 to 24, 2010, MIB and geosmin concentrations in the SWP remain low, ranging from non-detect to 2 ng/L at Clifton Court Inlet, HBP, O'Neill Outlet, Del Valle Check 7, Pacheco PP, Lake Mathews, Silverwood Lake, Check 41 and Check 66.

Ground water pump-ins to the California Aqueduct from March 23 to 29, 2010 totaled 3,121AF. The break down of the total volume was:

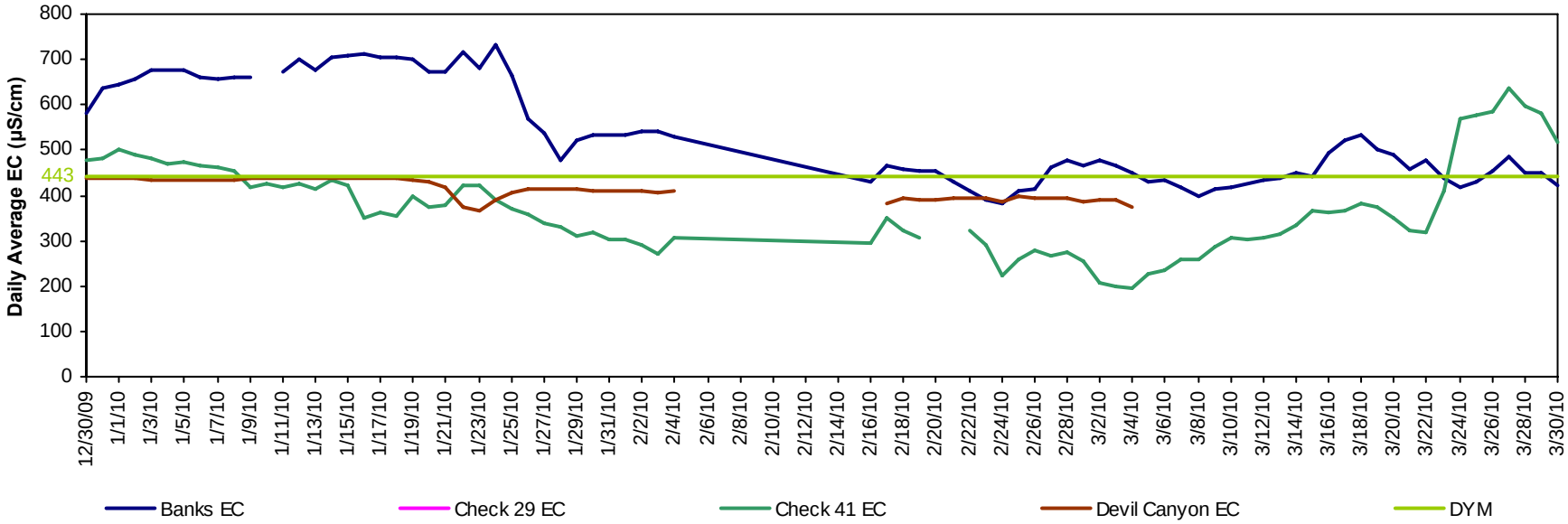
- Arvin Edison Water Storage District = 1 AF
- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 1,404 AF
- Kern County Water Agency (who operate the Cross Valley Canal) = 1,709 AF
- Semitropic (2&3) Water Storage District = 7 AF

As of March 29, 2010, no data were available for Check 29 and Devil Canyon due to malfunctioning instruments and the water quality station upgrades currently underway.

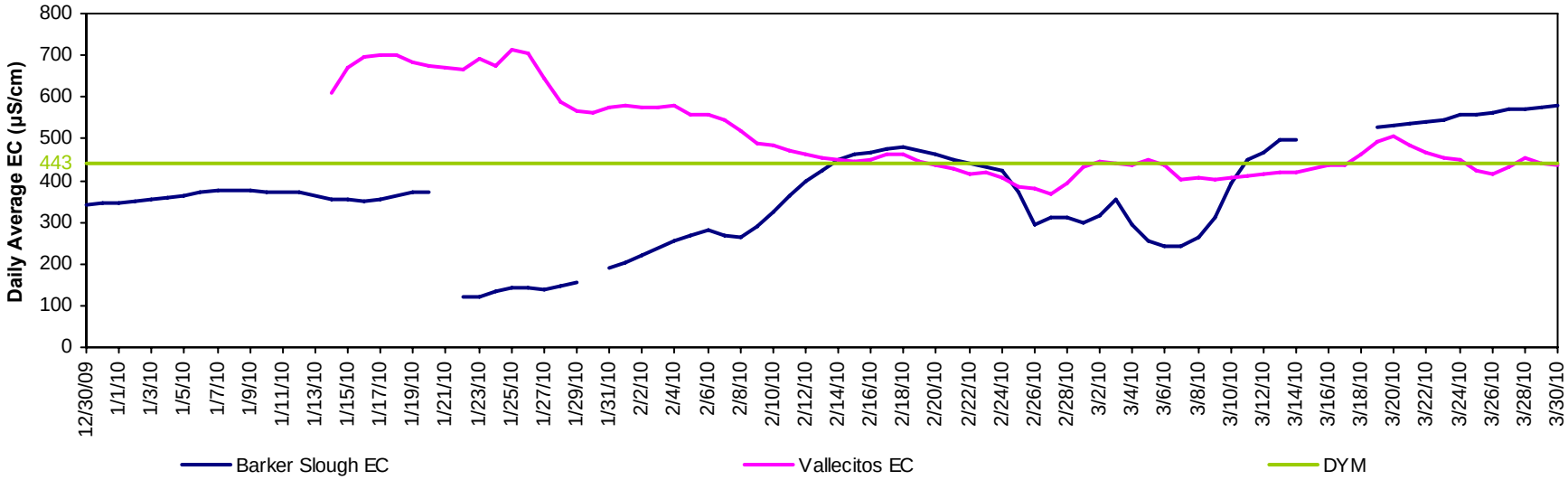
The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213, or Austine Eke @ 916-653-7227. To view WQ data from the automated stations along the SWP, visit: http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm, and click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

To view the Edmonston's daily AF pumping data, visit: www.water.ca.gov. Click on the "State Water Project" tab, and click on the "Operations Control" link. Look under the "Project-Wide Operations" header for the "Dispatcher's Daily Water Report."

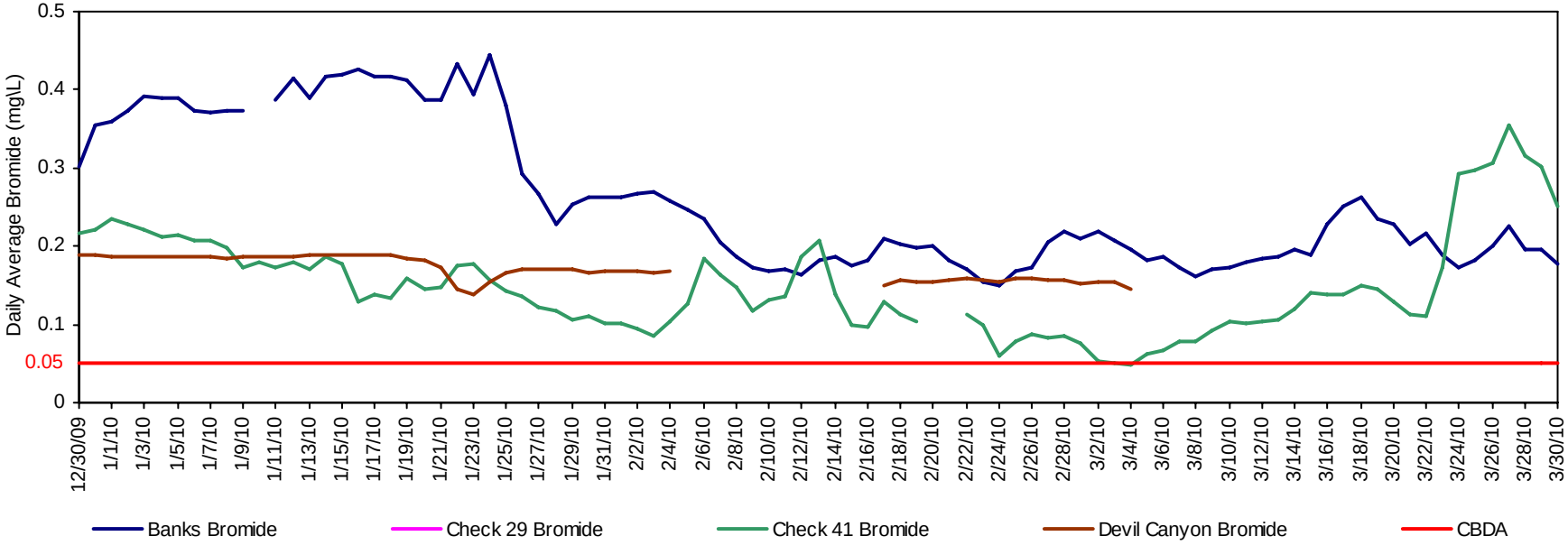
California Aqueduct - Electrical Conductivity



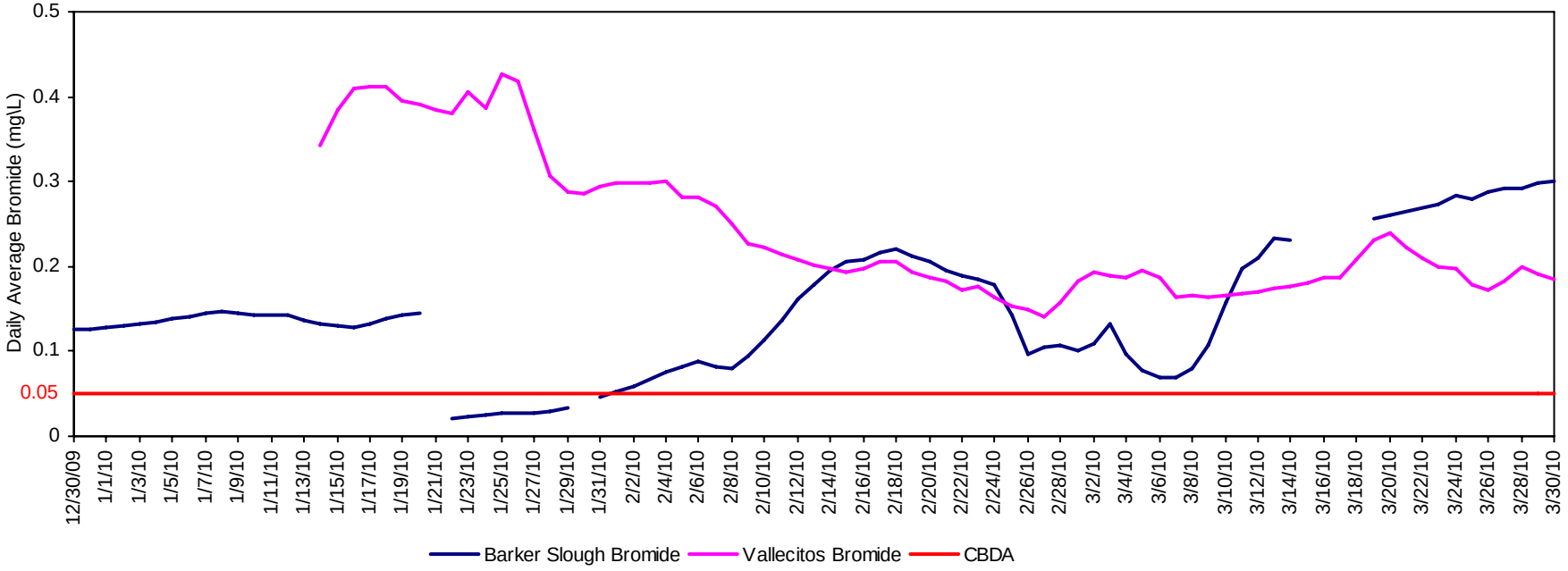
North and South Bay Aqueduct - Electrical Conductivity



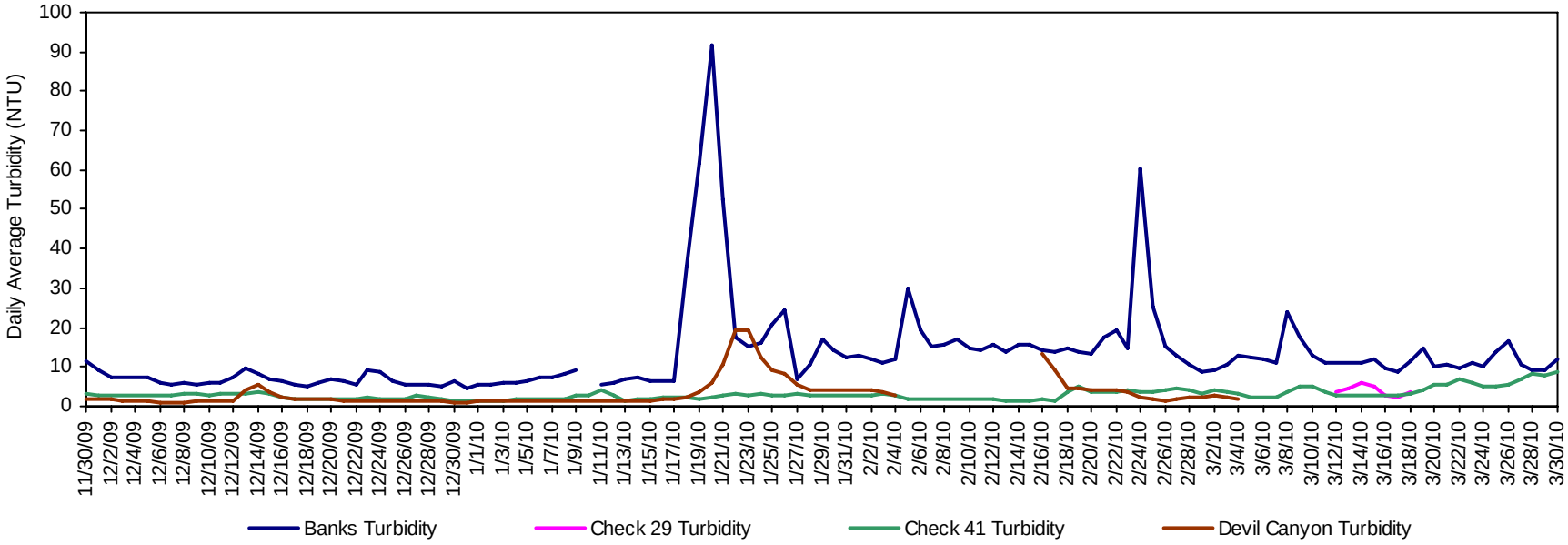
California Aqueduct - Calculated Bromide



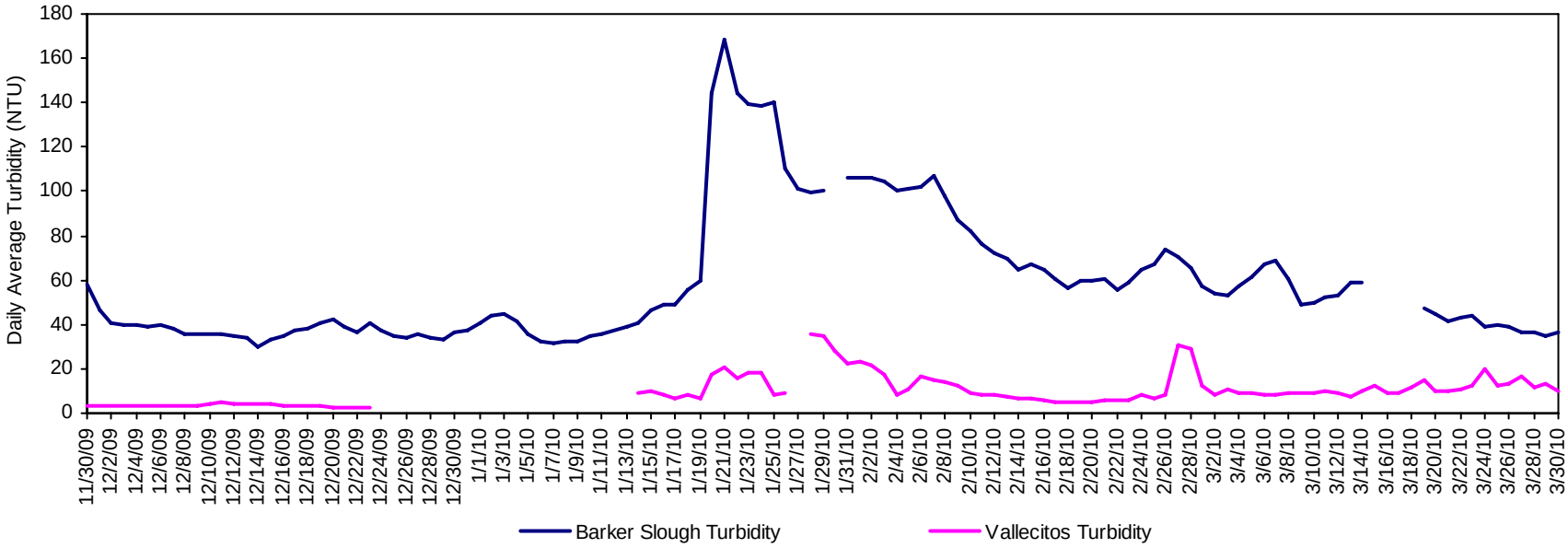
North and South Bay Aqueduct - Calculated Bromide

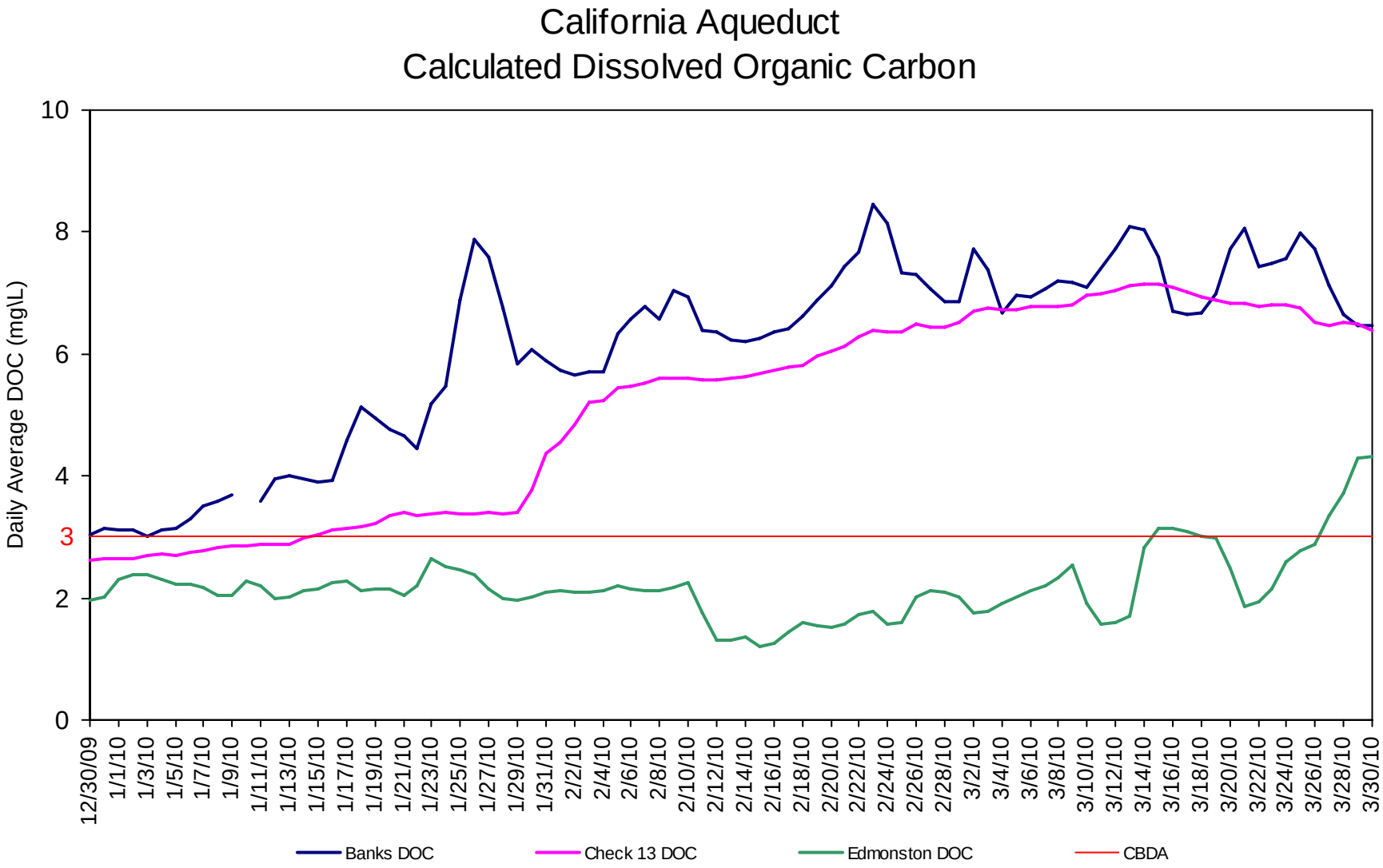


California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity




California Aqueduct
Calculated Dissolved Organic Carbon
Daily Average DOC (mg\L)
10
8
6
4
3
2
0
12/30/09
1/1/10
1/3/10
1/5/10
1/7/10
1/9/10
1/11/10
1/13/10
1/15/10
1/17/10
1/19/10
1/21/10
1/23/10
1/25/10
1/27/10
1/29/10
1/31/10
2/2/10
2/4/10
2/6/10
2/8/10
2/10/10
2/12/10
2/14/10
2/16/10
2/18/10
2/20/10
2/22/10
2/24/10
2/26/10
2/28/10
3/2/10
3/4/10
3/6/10
3/8/10
3/10/10
3/12/10
3/14/10
3/16/10
3/18/10
3/20/10
3/22/10
3/24/10
3/26/10
3/28/10
3/30/10
Banks DOC
Check 13 DOC
Edmonston DOC
CBDA